

CLAIMS

What is claimed is:

- 5 1. A process for the production of coatings on substrates comprising the successive steps:
- a) providing a substrate to be coated and a backing foil provided on one side with an uncured or at least only partially cured coating of a curable coating composition,
- 10 b) applying the coated side of the backing foil provided with the uncured or at least only partially cured coating onto the substrate,
- c) curing of the coating applied in said manner and
- d) removing the backing foil from the coating which remains on the substrate,
- 15 wherein curing of the coating proceeds prior to and/or after removal of the backing foil and wherein the uncured or at least only partially cured coating of the curable coating composition being applied onto one side of the backing foil by screen printing.
- 20 2. The process of claim 1, wherein the curable coating composition is a thermally curable coating composition and curing proceeds in step c) by supply of thermal energy by means of a method selected from the group consisting of radiant heating, convection, induction heating, contact heating and any combination thereof.
- 25 3. The process of claim 1, wherein the curable coating composition is a coating composition curable by means of high-energy radiation and the curing in step c) with high-energy radiation is selected from the group consisting of electron beam radiation and UV radiation.
- 30 4. The process of claim 1, wherein the curable coating composition is a coating composition curable thermally and by means of

high-energy radiation and the curing in step c) proceeds by supply of thermal energy by means of a method selected from the group consisting of radiant heating, convection, induction heating, contact heating and any combination thereof and with high-energy radiation selected from the
5 group consisting of electron beam radiation and UV radiation.

5. The process of claim 1, wherein the curable coating composition contains at least one binder with free-radically polymerizable olefinic double bonds.
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6. The process of claim 1, wherein the curable coating composition contains at least one binder which is crosslinkable by means of reactions selected from the group consisting of condensation reactions, addition reactions and combinations thereof.
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7. The process of claim 1, wherein the substrates provided in step a) are selected from the group consisting of vehicle bodies, body parts and body fittings.

20 8. The process of claim 1, wherein the coating applied onto the substrate is applied for the purposes of original coating, repair coating or provision of the substrate with an image.

9. Substrates provided with a coating using the process of claim 1.